

Tessellation 21

Suite: Tessellation Party!

by Arya Akhavan (January 2013)

Angles for R.I. = 1.620

54 + 14 girdles = 68 facets

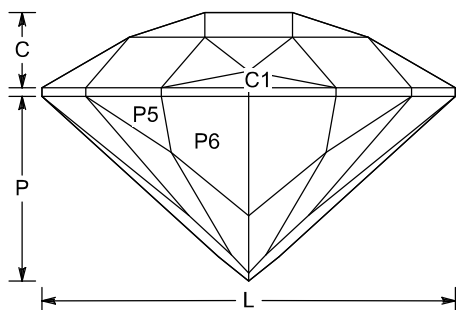
2-fold, mirror-image symmetry

96 index

L/W = 1.146

P/W = 0.511 C/W = 0.208

Vol./W³ = 0.288



PAVILION

P1	41.98°	14-34-62-82	Cut to centerpoint.
P2	42.86°	15-33-63-81	Meet at culet.
P3	43.00°	16-32-64-80	Meet at culet.
P4	42.18°	24-72	Meet at culet.
G1	90.00°	24-72	Set stone length.
G2	90.00°	16-32-64-80	Level girdle.
G3	90.00°	08-40-56-88	Meet P2, P3, G2
P5	65.00°	08-40-56-88	Level girdle.
P6	65.18°	03-45-51-93	Meet P1, P2, P5
G4	90.00°	03-45-51-93	Level girdle.
P7	42.00°	17-31-65-79	Meet P3, P4, G1, G2

CROWN

C1	44.12°	03-45-51-93	Set girdle width.
C2	30.00°	08-40-56-88	Level girdle.
C3	33.69°	16-32-64-80	Level girdle.
C4	30.00°	24-72	Level girdle.
C5	30.48°	05-43-53-91	Meet G3, G4, C1, C2
C6	24.14°	96-48	Meet C1, C5
C7	18.00°	24-72	Meet C2, C3, C4
C8	18.00°	08-40-56-88	Meet C2, C3, C4, C5; C2, C5, C6
C9	15.72°	96-48	Meet C2, C5, C6, C8; C7, C8

Ugh, I can't believe I ever published the old version of this design. It was absolutely terrible, with no significant redeeming features. This new version features a cross-keel in the pavilion, and a counter-keel in the crown, something that nobody else seems to do. Particularly well-suited to tourmaline with bad off-axis colors (orient those on the X axis), but works in materials from topaz to rutile (RI = 1.61 - 2.62) with no changes.

C:\Users\ARYADE~1\Pictures\Gems\DESIGN~1\WORKSI~1\Fixed\TE96F9~1.GEM